32.(new) The process of claim 31 wherein the step of permeating is performed at a flux of less than 40 Liters per square meter per hour based on the surface area of the outside of the filtering membranes.

## REMARKS

This application is a National Phase Entry of a PCT application (PCT/CA00/01354) which is related to pending U.S. application serial no. 09/565,032. Claims 1 - 20 of this application are cancelled because they are very similar to claims being prosecuted in application serial no. 09/565,032. The new claims submitted with this preliminary amendment relate to other matter disclosed in these applications. To the extent that the new claims differ from original claims 1 - 20, they are supported in the application at page 3, line 26 to page 4, line 14, page 5, lines 16 - 24 and page 8, lines 11 - 26.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "<u>Version with markings to show changes made</u>."

Respectfully submitted,

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## VERSION WITH MARKINGS TO SHOW CHANGES MADE

## In the claims:

Please cancel claims 1 -20 without prejudice.

Please add new claims 21 - 32 as follows.

- 21.(new) A filtering reactor comprising,
  - a) a tank open to the atmosphere;
  - b) one or more modules of suction driven filtering membranes in the tank for withdrawing a filtered permeate;
  - c) an inlet to add feed water to the tank; and,
  - d) a retentate outlet to discharge water containing retained solids from the tank from above the one or more modules; wherein
  - e) the one or more modules may be backwashed with a liquid comprising permeate;
  - f) the one or more modules have a surface area of at least 500 square meters for every square meter of horizontal cross-sectional area of the tank; and,
- 22. (new) The reactor of claim 21 wherein the one or more modules cover more than 90% of the horizontal cross-sectional area of the tank.
- 23. (new) The reactor of claim 21 wherein
  - g) the one or more modules are divided into elements, each element having a pair of opposed headers; and,
  - h) the elements are separated from each other by impervious plates; and,
  - i) channels are provided for water to flow vertically through the elements.
- 24.(new) The reactor of claim 23 wherein the elements have hollow fiber membranes oriented generally horizontally.
- 25. (new) The reactor of claim 21 wherein the inlet is located to add feed water to the tank from below the one or more modules.
- 26. (new) The reactor of claim 21 having aerators in the tank below the one or more modules.
- 27. (new) A process for filtering water comprising the steps of,

- a) providing a filtering reactor as in any of claims 21 through 26; and,
- b) in repeated cycles,
  - (i) permeating filtered water while adding a sufficient volume of feed water to the tank to keep the membranes submerged; and
  - (ii) performing a deconcentration step further comprising at least one or both of (A) providing a flow of feed water into the tank from below the modules or (B) backwashing the one or more membrane modules with a liquid comprising permeate, wherein excess water containing retained solids flows out of the retentate outlet.
- 28. (new) The process of claim 27 wherein the step of permeating is performed at a flux of less than 60 Liters per square meter per hour based on the surface area of the outside of the filtering membranes.
- 29. (new) The process of claim 28 wherein the step of permeating is performed at a flux of less than 40 Liters per square meter per hour based on the surface area of the outside of the filtering membranes.
- 30. (new) The process of claim 27 wherein permeation is stopped during the deconcentration step and the one or more modules are aerated while permeation is stopped during the deconcentration step.
- 31. (new) The process of claim 30 wherein the step of permeating is performed at a flux of less than 60 Liters per square meter per hour based on the surface area of the outside of the filtering membranes.
- 32.(new) The process of claim 31 wherein the step of permeating is performed at a flux of less than 40 Liters per square meter per hour based on the surface area of the outside of the filtering membranes.